



# SPYWOLF

## Security Audit Report



Completed on  
**June 17, 2022**

MADE IN USA 

 @SPYWOLFNETWORK

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 SPYWOLF.CO



# OVERVIEW

This audit has been prepared for **Label2Earn** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

”





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# Label2Earn



## PROJECT DESCRIPTION

### **According to their whitepaper:**

Label to earn (L2E) is project which will produce accurate and large datasets for artificial intelligence (AI) based systems.

L2E project will provide its users the opportunity to earn \$L2E tokens while they draw lines on images.

That way the system will convert the drawn lines around images to labels. The aim of this task is to improve datasets accuracy.

Future development for the project - Creating API web services, Datasets marketplace.

**Release Date:** Sep 1, 2021

**Category:** Wallet

01





# CONTRACT INFO

Token Name

Label2Earn

Symbol

L2E

Contract Address

0x367b7aaca8B8331C50FDA8C997F90BC936B7144a

Network

Binance Smart Chain

Language

Solidity

Deployment Date

June 17, 2022

Verified?

Yes

Total Supply

256,000,000

Status

Not launched

## TAXES

Buy Tax

**6%**

Sell Tax

**12%**

\*There is also 6% tax for transfers.  
Taxes can be changed in future.



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



# CURRENT STATS

(As of June 17, 2022)



Liquidity

Not added yet



Burn

No burnt tokens

Status:  
**Not Launched!**

MaxTxAmount  
2,560,000

DEX:  
PancakeSwap

LP Address(es)

Liquidity not added yet



## TOKEN TRANSFERS STATS

|                         |               |
|-------------------------|---------------|
| Transfer Count          | 1             |
| Uniq Senders            | 1             |
| Uniq Receivers          | 1             |
| Total Amount            | 256000000 L2E |
| Median Transfer Amount  | 256000000 L2E |
| Average Transfer Amount | 256000000 L2E |
| First transfer date     | 2022-06-17    |
| Last transfer date      | 2022-06-17    |
| Days token transferred  | 1             |

## SMART CONTRACT STATS

|                       |  |
|-----------------------|--|
| Calls Count           | 1  |
| External calls        | 1  |
| Internal calls        | 0  |
| Transactions count    | 1  |
| Uniq Callers          | 1  |
| Days contract called  | 1  |
| Last transaction time | 2022-06-17 12:15:54 UTC  |
| Created               | 2022-06-17 12:15:54 UTC  |
| Create TX             | 0xe39ff3b62197f84c1c8ad85b68aa9039747137edc1c5caad9feb2afe110afe11 |
| Creator               | 0xf4829c7ble6074746b0334abf1ac5522b27afb9b                         |



# FEATURED WALLETS

|               |  |
|---------------|--|
| Owner address | 0xf4829c7b1e6074746b0334abf1ac5522b27afb9b |
| LP address    | Liquidity not added yet                    |

## TOP 3 UNLOCKED WALLETS

1



Same as owner





# VULNERABILITY CHECK

|  |        |
|--|--------|
| Design Logic   | Passed |
| Compiler warnings.   | Passed |
| Private user data leaks  | Passed |
| Timestamp dependence   | Passed |
| Integer overflow and underflow                                 | Passed |
| Race conditions and reentrancy. Cross-function race conditions | Passed |
| Possible delays in data delivery                               | Passed |
| Oracle calls   | Passed |
| Front running  | Passed |
| DoS with Revert  | Passed |
| DoS with block gas limit                                       | Passed |
| Methods execution permissions                                  | Passed |
| Economy model  | Passed |
| Impact of the exchange rate on the logic                       | Passed |
| Malicious Event log  | Passed |
| Scoping and declarations                                       | Passed |
| Uninitialized storage pointers                                 | Passed |
| Arithmetic accuracy  | Passed |
| Cross-function race conditions                                 | Passed |
| Safe Zeppelin module   | Passed |
| Fallback function security                                     | Passed |



# THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

---

Issues on this level are minor details and warning that can remain unfixed.

## Informational

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



# FOUND THREATS

## ⚠ High Risk

Owner can change buy fees up to 100%, sell fees up to 20%, transfer fees up to 25%.

```
function setFees(uint256 _liquidityFeeSell, uint256 _marketingFeeSell,
uint256 _burnFeeSell , uint256 _transferFee , uint256 _liquidityFeeBuy,
uint256 _marketingFeeBuy, uint256 _burnFeeBuy , uint256 _competitionFee) external onlyOwner {
    require(_liquidityFeeSell.add(_marketingFeeSell).add(_burnFeeSell) <= 250 , "maximum total sell fee is 25");
    require(_liquidityFeeBuy.add(_marketingFeeBuy).add(_burnFeeBuy) <= 200 , "maximum total buy fee is 20");
    require(_transferFee <= 250 , "maximum transfer total fee is 25");

    liquidityFeeSell = _liquidityFeeSell;
    marketingFeeSell = _marketingFeeSell;
    burnFeeSell = _burnFeeSell;
    totalFeeSell = _liquidityFeeSell.add(_marketingFeeSell).add(_burnFeeSell);
    liquidityFeeBuy = _liquidityFeeBuy;
    marketingFeeBuy = _marketingFeeBuy;
    burnFeeBuy = _burnFeeBuy;
    competitionRewardPercent = _competitionFee;
    totalFeeBuy = _liquidityFeeBuy.add(_marketingFeeBuy).add(_burnFeeBuy).add(_competitionFee);
    transferFee = _transferFee;

    emit feeChanged(_liquidityFeeSell , _marketingFeeSell , _burnFeeSell , _liquidityFeeBuy,
    _marketingFeeBuy , _burnFeeBuy , _transferFee , _competitionFee);
}
```

- Recommendation:
  - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.

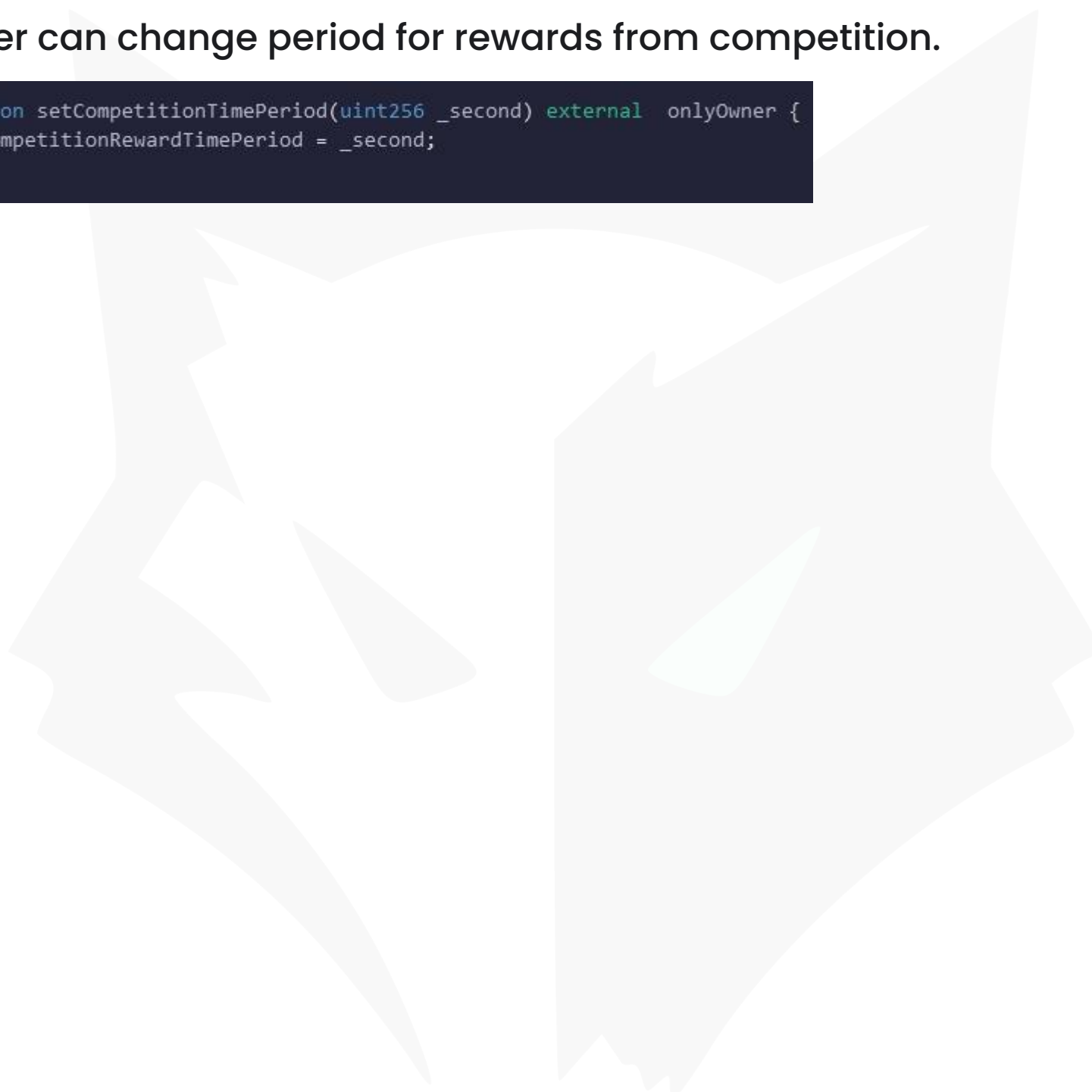


# FOUND THREATS

## Medium Risk

Owner can change period for rewards from competition.

```
function setCompetitionTimePeriod(uint256 _second) external onlyOwner {  
    competitionRewardTimePeriod = _second;  
}
```





## ⚠ Low Risk

Owner can withdraw tokens from the contract.

```
function transferForeignToken(address _token) external onlyOwner returns (bool) {
    if(_token == WBNB){
        require(address(this).balance > 0 , "no BNB balance in contract");
        payable(marketingFeeReceiver).transfer(address(this).balance);
        return true;
    }

    uint256 _contractBalance = IBEP20(_token).balanceOf(address(this));
    if(_token != address(this)){
        IBEP20(_token).transfer(marketingFeeReceiver , _contractBalance);
        return true;
    }

    _contractBalance = _contractBalance.sub(liqamount).sub(competitionAmount);
    require(_contractBalance > 0 , "there is no marketing tokens to withdraw");
    _basicTransfer(address(this) , marketingFeeReceiver , _contractBalance);
    return true;
}
```

Owner can set max transaction limit, but can't change it below 0.1% of total supply.

```
function setTxLimit(uint256 amount) external onlyOwner {
    if(amount * (10 ** _decimals) < _totalSupply / 1000){
        revert();
    }
    _maxTxAmount = amount * (10 ** _decimals);
    emit maxTxAmountChanged(amount * (10 ** _decimals));
}
```



RECOMMENDATIONS FOR

# GOOD PRACTICES

---

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

## Label2Earn

### GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract
- ✓ The owner can set a transaction limit, but can't lower it than 0.1% of total supply
- ✓ The smart contract utilizes "SafeMath" to prevent overflows





\*The following tokenomics are based on the project's social channels:

The token is currently in migration process to new contract. The process will be held as follow:

Users are requested to either sell their tokens or send them to the developer wallet and when the new token is launched the ones that sent their tokens will receive 40% of their holdings in the new token airdrop. The other 60% of their allocation will be vested for 2 months with 25% releases each 2 weeks. The users that just hold the old tokens after the migration (did not sent to dev wallet or sold) will lose their positions and wont receive airdrop.

TOKENOMICS



# THE TEAM

The team at **Label2Earn** has privately doxxed to SPYWOLF by completing the following KYC requirements:

- ID Verification
- Video statement
- Video interview with devs
- Owner's wallet verification

## KYC INFORMATION

Issuer

SPYWOLF

Members



KYC Date

June 17, 2022

Format

Image

Certificate Link

[https://github.com/SpyWolfNetwork/KYCs/blob/main/june/KYC\\_Label2Earn\\_0x367b7aaca8B8331C50FDA8C997F90BC936B7144a.png](https://github.com/SpyWolfNetwork/KYCs/blob/main/june/KYC_Label2Earn_0x367b7aaca8B8331C50FDA8C997F90BC936B7144a.png)





**Website URL**  
https://label2earn.com/

**Domain Registry**  
http://www.key-systems.net

**Domain Expiration**  
Expires on 2022-12-21

**Technical SEO Test**  
Passed

**Security Test**  
Passed. SSL certificate present

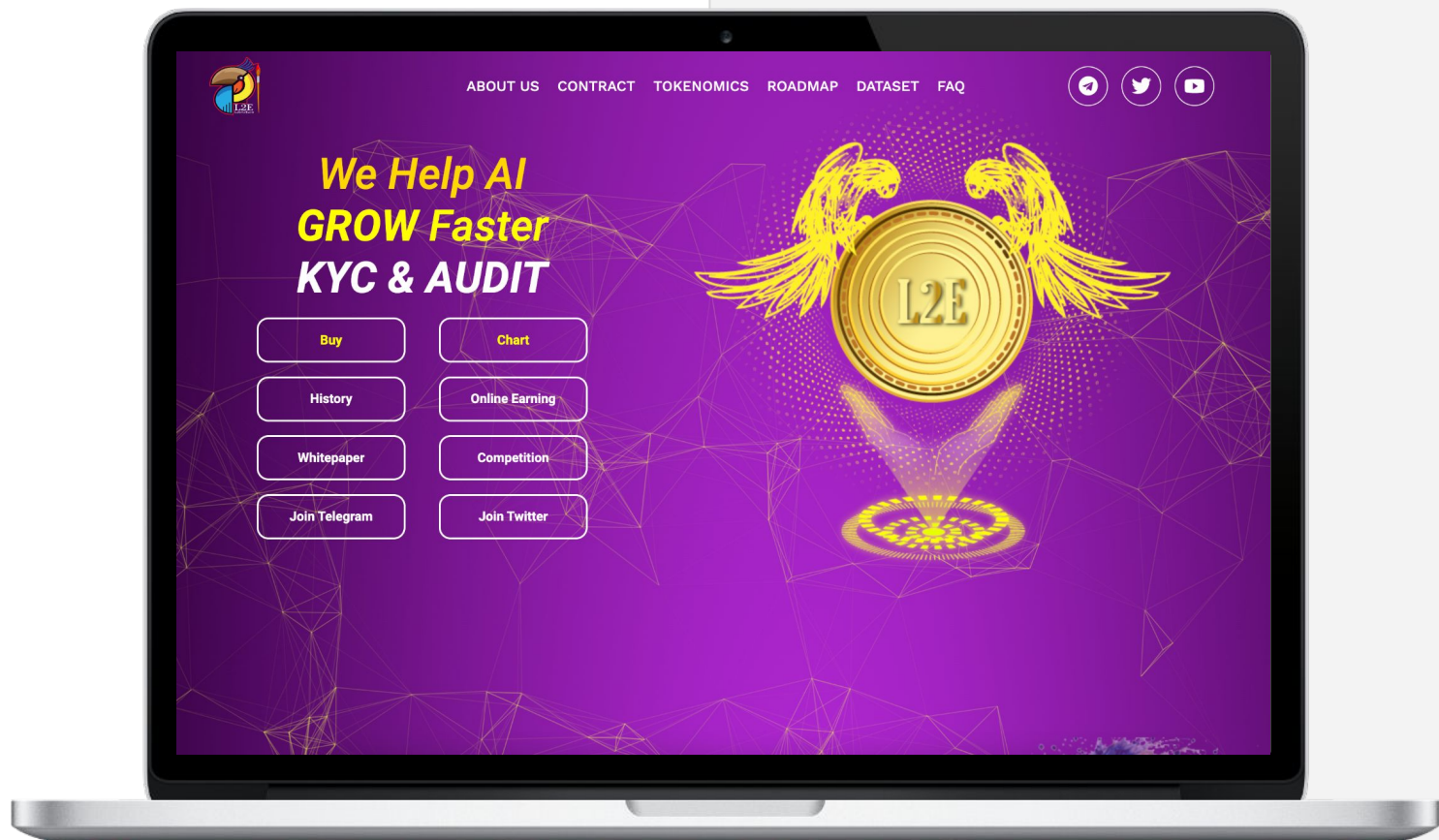
**Design**  
Appropriate color scheme and overall layout.

**Content**  
The information helps new investors understand what the product does right away.  
No grammar errors found.

**Whitepaper**  
Well written, explanatory.

**Roadmap**  
Yes, goals set at 4 phases with time frames.

**Mobile-friendly?**  
Yes



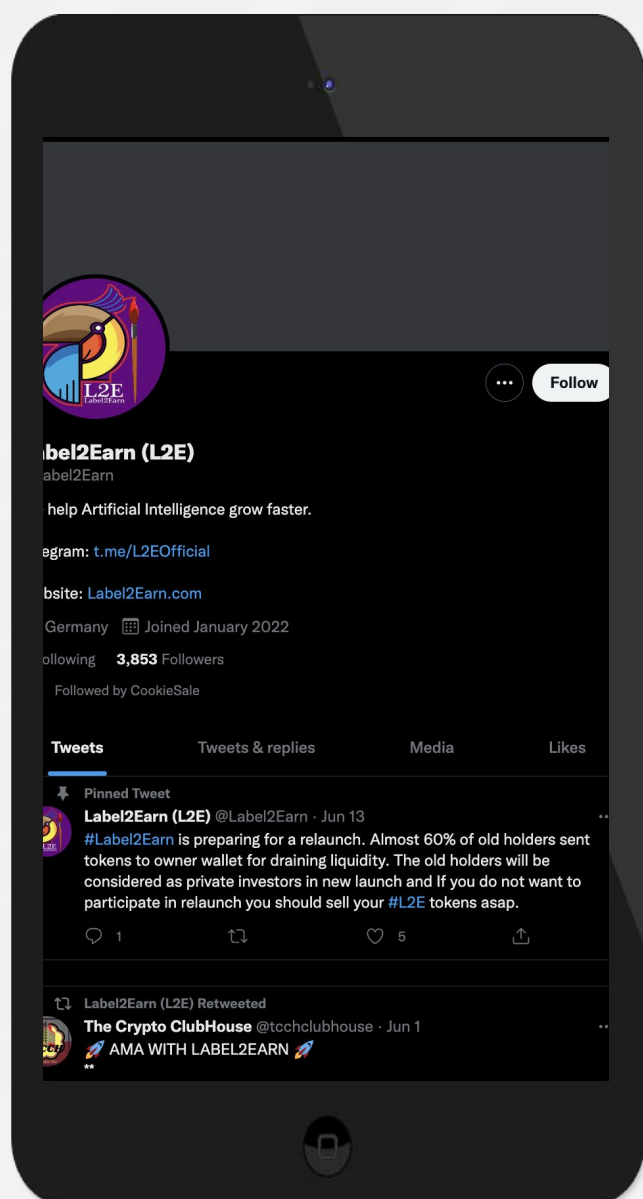
# label2earn.com



# SOCIAL MEDIA & ONLINE PRESENCE



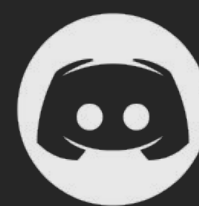
## ANALYSIS



### Twitter

<https://twitter.com/Label2Earn>

- 3 853 followers
- Active
- Posts once every few days



### Discord

- Not available



### Telegram

<https://t.me/L2EOfficial>

- 2 561 members
- Active users
- Active mods



### Medium

- Not available



# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

## ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 150 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.